

Results of Analyses
Wastewater Spill Monitoring –
Beachwalk SPS Spill (Shoreline Stations)
May 8, 2006

Samples collected Sunday, May 7, 2006 (45th day):
Spill reported on March 24, 2006.
NPDES Permit No. HI 0020117.

<u>Station</u>	<u>Collection Time</u>	<u>Bacterial Counts / 100 mL</u>			<u>Salinity</u>
		<u>Fecal Coliform^{iv}</u>	<u>Enterococci^v</u>	<u>C. perfringens^{vi}</u>	
Magic Island Finger	7:29 A.M.	220	200	6	30.8
Ala Moana Canoe Launch Ramp	7:20 A.M.	1,100	870	50	25.2
Magic Island Lagoon	7:33 A.M.	8	3	1	34.2
Ala Wai Harbor Boat Launch Ramp	7:01 A.M.	400	540	42	24.6
Hilton Lagoon	7:12 A.M.	13	7	2	33.9
Hale Koa Hotel	5:47 A.M.	22	21	5	34.1
Halekulani-Sheraton	5:56 A.M.	12	5	< 1	34.3
Moana Hotel	6:02 A.M.	32	15	< 1	34.3
Kapahulu Groin	6:10 A.M.	7,800	2,900	< 1	33.6
Queen's Surf Beach	6:16 A.M.	3	< 1	1	34.5
Natatorium	6:22 A.M.	< 1	1	2	34.3

Weather: Sunny.

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<u>Station</u>	<u>Collection Time</u>	<u>Bacterial Counts / 100 mL</u>			<u>Salinity</u>
		<u>Fecal Coliform</u> ⁴	<u>Enterococci</u> ⁵	<u>C. perfringens</u> ⁶	
Date St. Bridge- Upstream	6:36 A.M.	4,000	3,800	40	0.1
Seaside Ave.- Upstream	6:42 A.M.	11,000	3,700	40	20.4
Kaiolu St.-Spill site	6:47 A.M.	4,200	3,400	40	6.0
McCully St. Bridge.	6:56 A.M.	3,700	2,400	75	9.4
Ala Moana Blvd. Bridge	7:01 A.M.	1,500	2,100	20	16.9

Weather: Overcast.

⁴ APHA, AWWA, WEF, Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, Membrane Filter Method for Fecal Coliform.

⁵ Improved Enumeration Methods for the Recreational Water Quality Indicators: Enterococci and *Escherichia coli*, EPA/821/R-97/004, March 2000, Membrane Filter Method 1600 for Enterococci.

⁶ Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCp Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.